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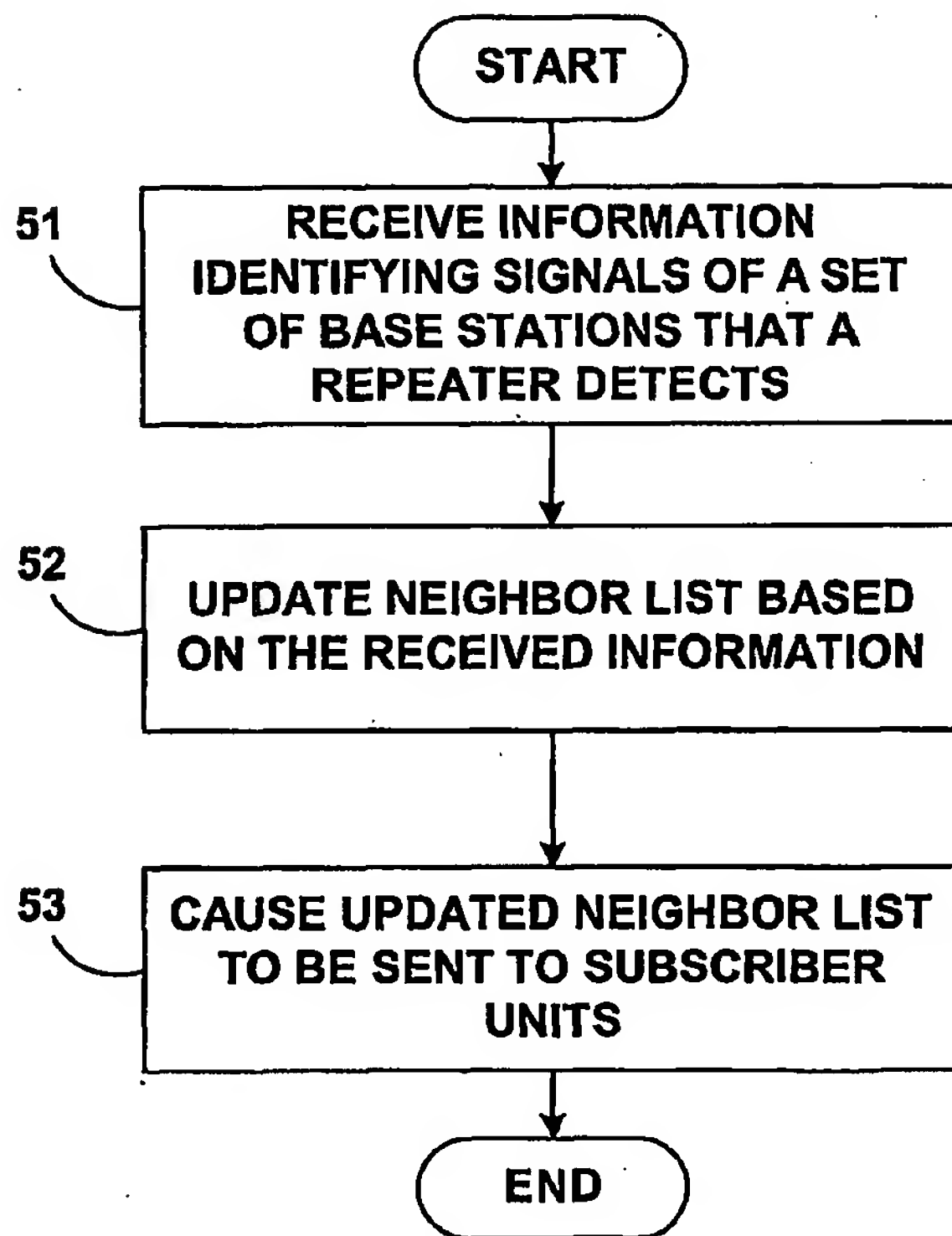
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(54) Title: **REPEATER THAT REPORTS DETECTED NEIGHBORS**



(57) Abstract: This disclosure is directed to a repeater (Fig. 1, item 14) and base station control device (Fig. 1, item 18) implemented in a wireless communication system (Fig. 1, item 10). The repeater includes a control unit capable of detecting signals sent from various base stations (Fig. 1, item 12A-12C) in the wireless communication system. In accordance with this disclosure, the repeater identifies a set of base stations that it can detect, and then sends information indicative of the set of base stations that the repeater can detect to a specific base station that gets repeated by the repeater. In this manner, the repeater can be used to help assess network topology. The base station control device receives the information from the base station and can use the information to update a neighbor list.

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